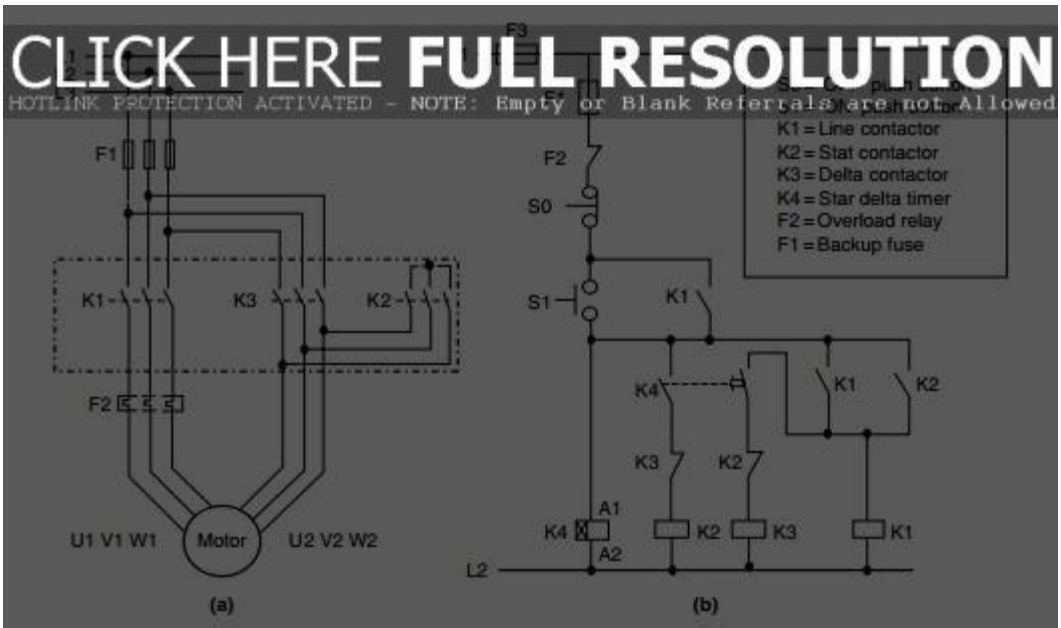
CLICK HERE FULL RESOLUTION
HOTLINK PROTECTION ACTIVATED - NOTE: Empty or Blank Referrals are not Allowed

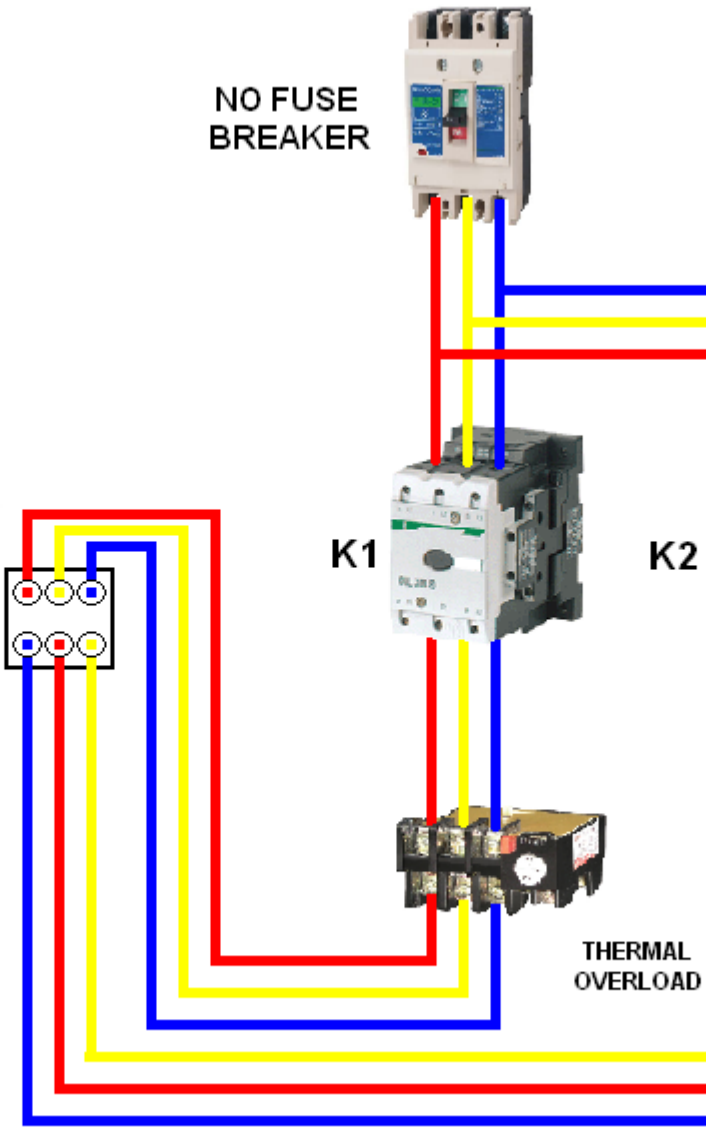


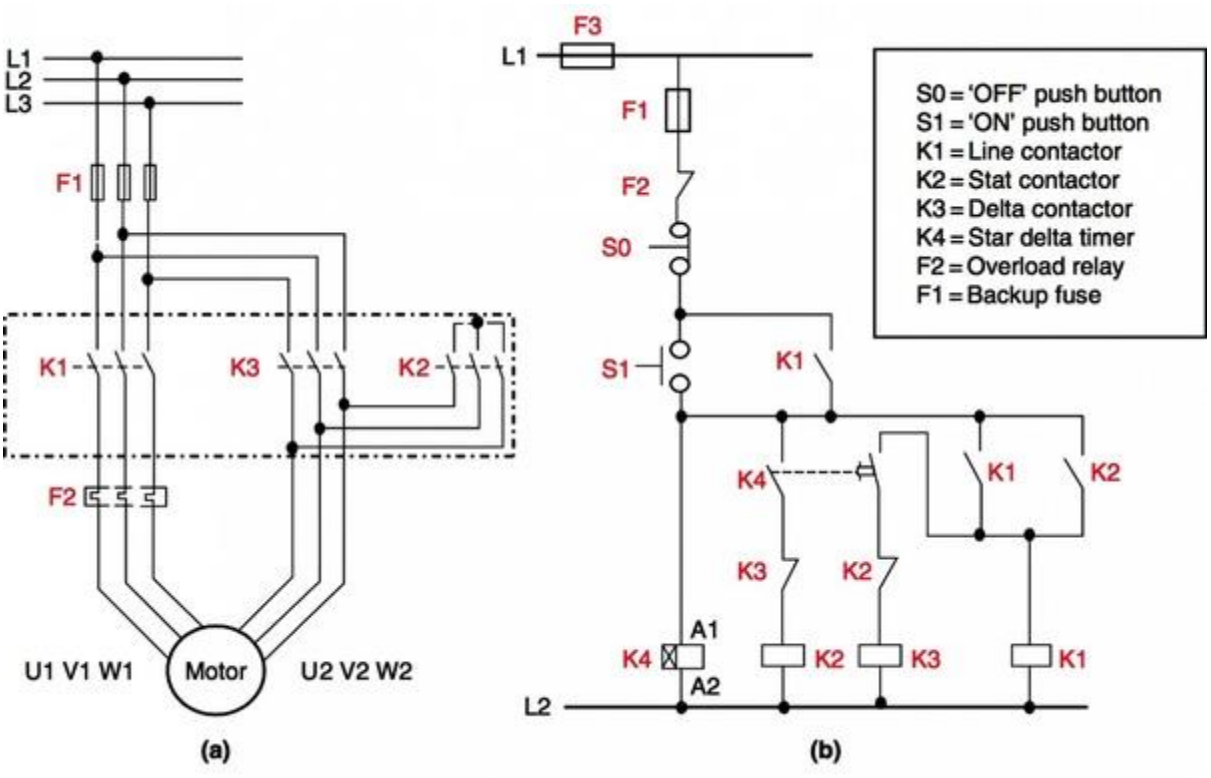
(a) Main circuit of star–delta starter; (b) Control circuit of star–delta starter

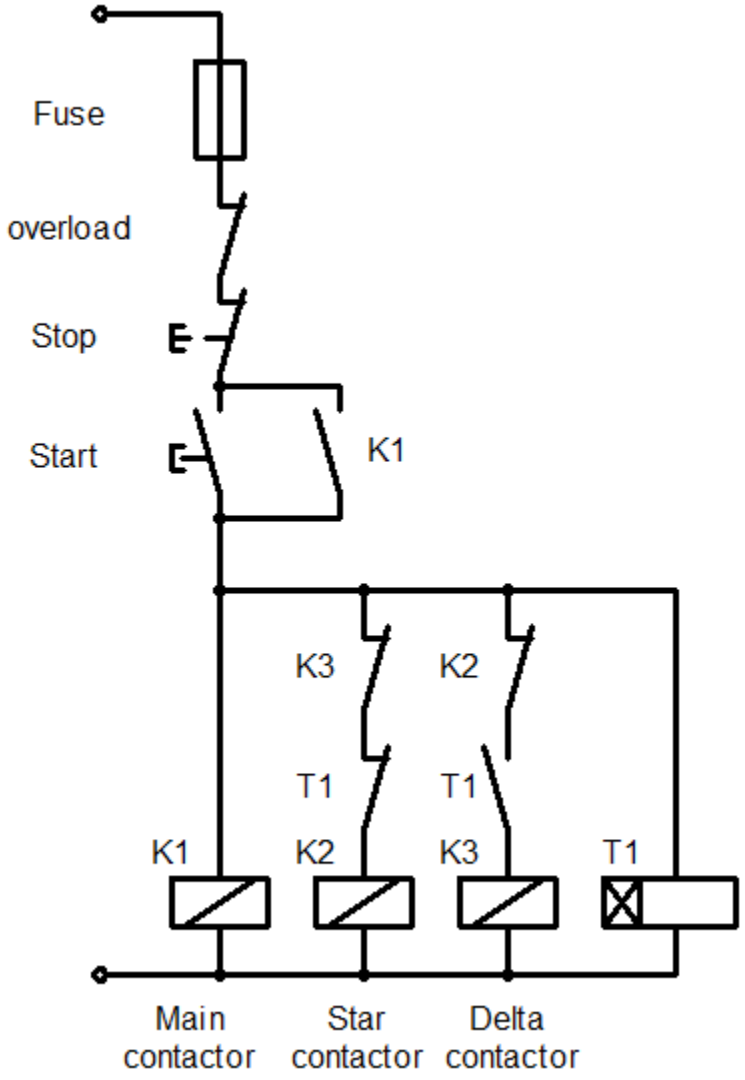
http://supercellule.fr
Protected by: ByREV WP-PICShield - HOTLINK Defence

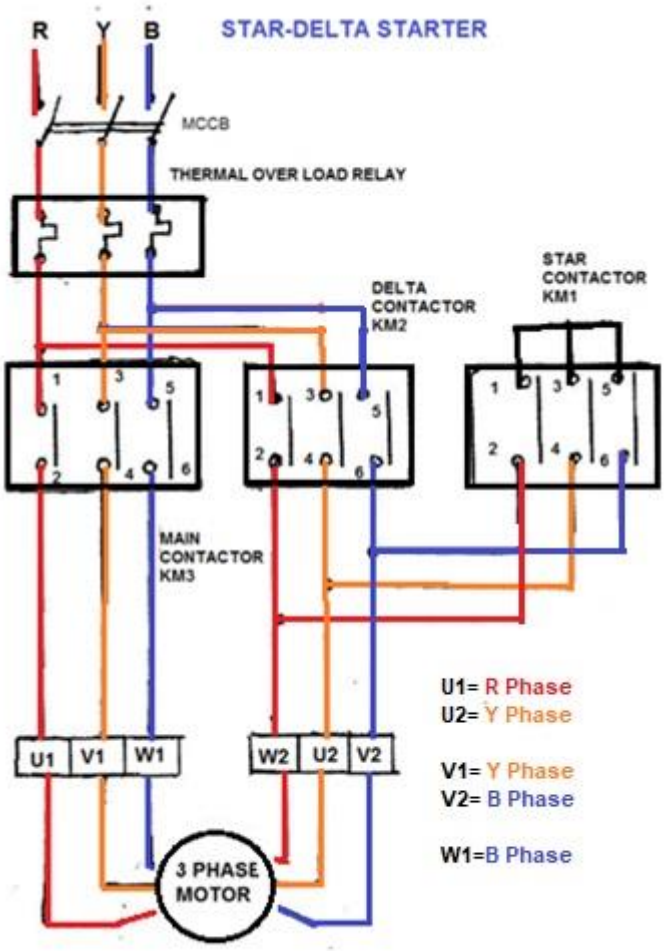
WIRING STAR DELTA

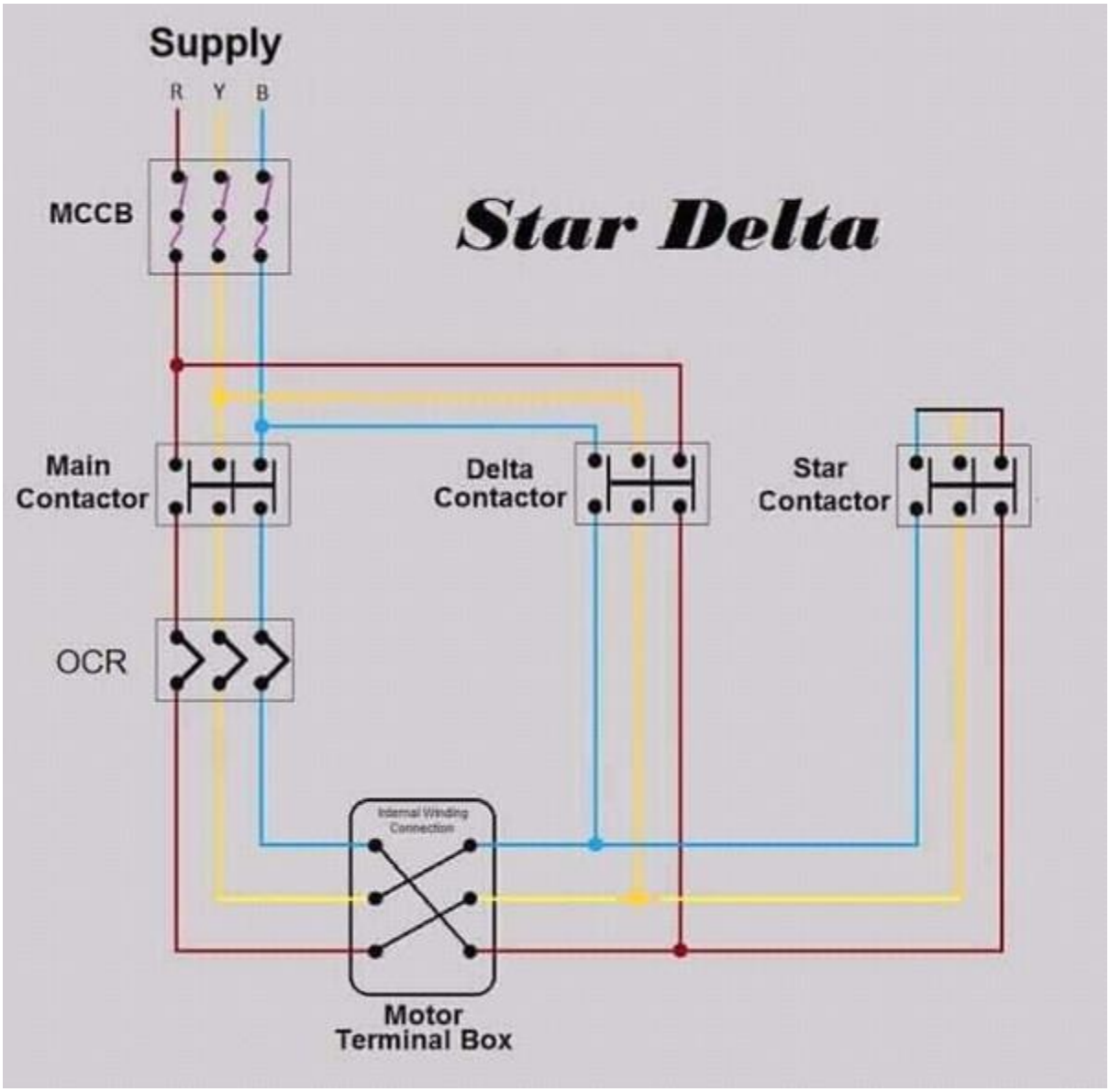
INDUCTION MOTOR 3 PHASE
380 V/15 KW

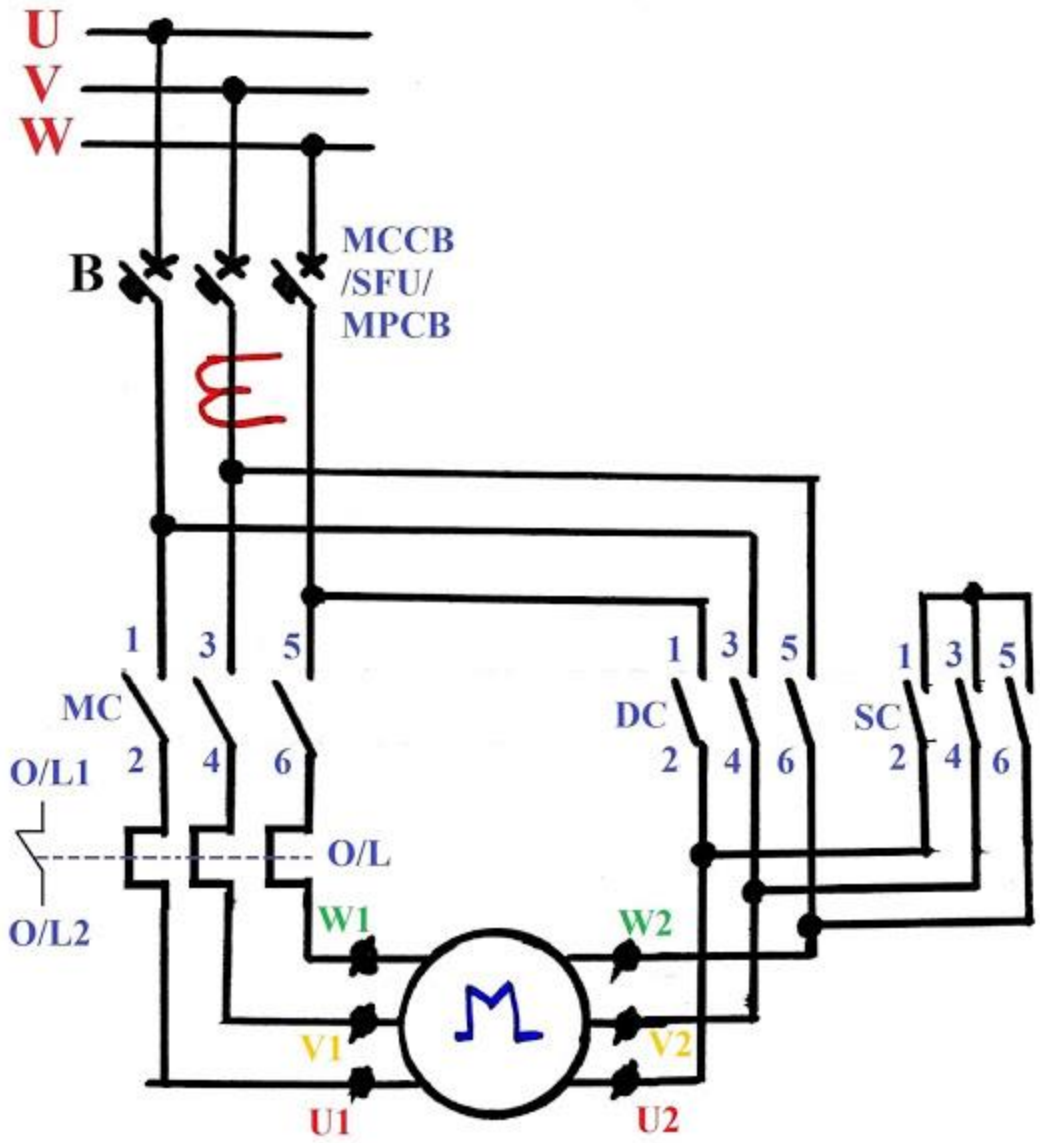


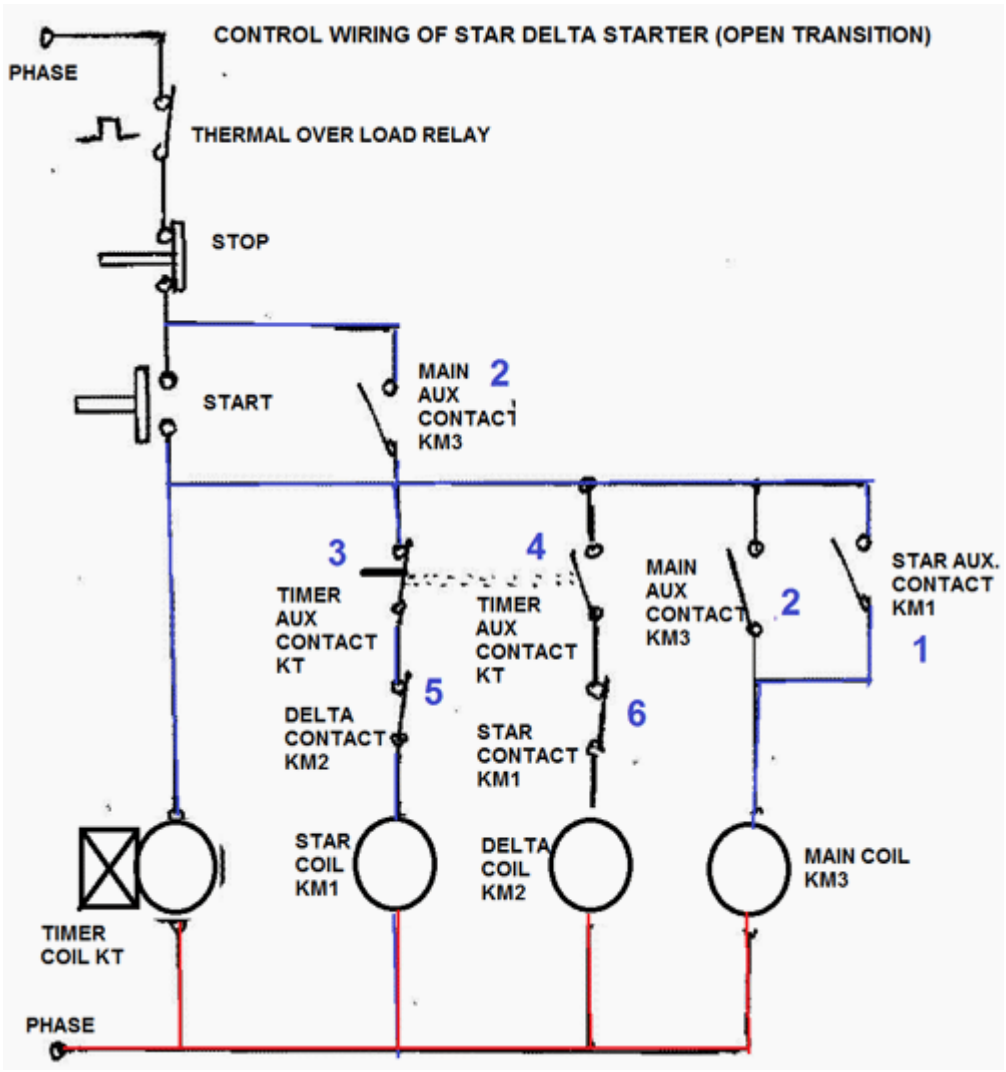

L1
L2
L3
F1
K1
K3
K2
F2
U1 V1 W1
Motor
U2 V2 W2
(a)
F3
L1
F1
F2
S0
S1
K1
K4
K1
K2
K3
K2
A1
K4
K2
K3
K1
A2
L2
(b)
S0 = 'OFF' push button
S1 = 'ON' push button
K1 = Line contactor
K2 = Stat contactor
K3 = Delta contactor
K4 = Star delta timer
F2 = Overload relay
F1 = Backup fuse

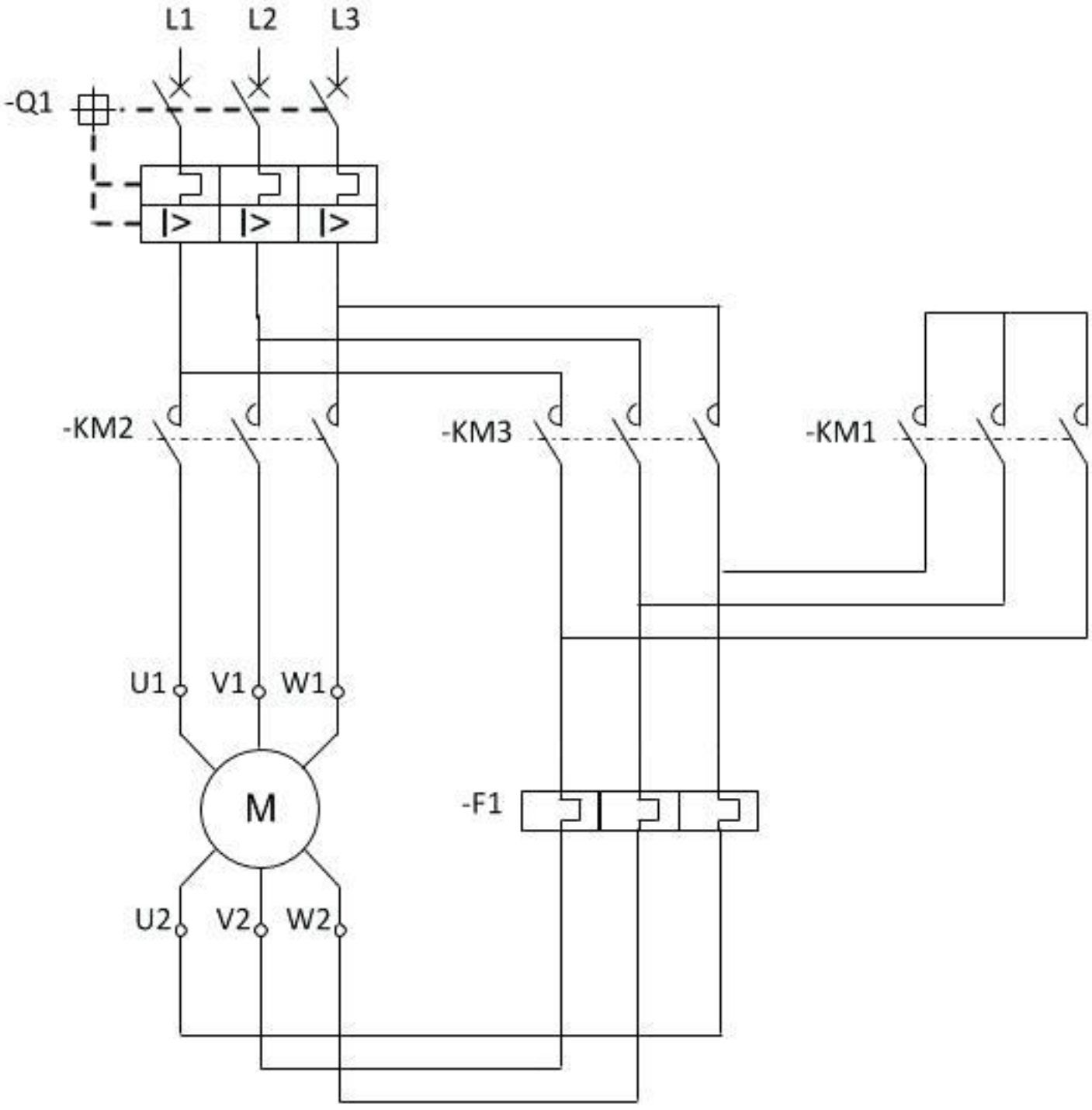

Fuse
overload
Stop
Start
K1
K3
K2
T1
T1
K1
K2
K3
T1
Main
contactor
Star
contactor
Delta
contactor


R
Y
B
STAR-DELTA STARTER
MCCB
THERMAL OVER LOAD RELAY
DELTA CONTACTOR KM2
STAR CONTACTOR KM1
MAIN CONTACTOR KM3
U1
V1
W1
W2
U2
V2
3 PHASE MOTOR
U1= R Phase
U2= Y Phase
V1= Y Phase
V2= B Phase
W1=B Phase


Supply
R Y B
MCCB
Star Delta
Main Contactor
Delta Contactor
Star Contactor
OCR
Internal Winding Connection
Motor Terminal Box


U
V
W
B
MCCB
/SFU/
MPCB
1
3
5
MC
2
4
6
O/L1
O/L
O/L2
DC
SC
W1
W2
V1
V2
U1
U2


CONTROL WIRING OF STAR DELTA STARTER (OPEN TRANSITION)
PHASE
THERMAL OVER LOAD RELAY
STOP
START
MAIN AUX CONTACT KM3
2
3
TIMER AUX CONTACT KT
4
TIMER AUX CONTACT KT
5
DELTA CONTACT KM2
6
STAR CONTACT KM1
MAIN AUX CONTACT KM3
2
STAR AUX. CONTACT KM1
1
TIMER COIL KT
STAR COIL KM1
DELTA COIL KM2
MAIN COIL KM3
PHASE



Power Circuit